



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

Address: COMMISSIONER FOR PATENTS

P.O. Box 1450

Alexandria, Virginia 22313-1450

www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/556,721	11/14/2005	Tsuneo Shirai	279719US6PCT	3287
22850	7590	03/30/2009		
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314				
EXAMINER				
FOSSELMAN, JOEL W				
ART UNIT		PAPER NUMBER		
2622				
NOTIFICATION DATE		DELIVERY MODE		
03/30/2009		ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com

oblonpat@oblon.com

jgardner@oblon.com

Office Action Summary

Application No.

10/556,721

Applicant(s)

SHIRAI ET AL.

Examiner

JOEL FOSSELMAN

Art Unit

2622

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 January 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1, 4-8 and 11-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 4-8, 12 and 13 is/are rejected.
- 7) ☒ Claim(s) 11, 14 and 15 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 07 January 2009 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Response to Amendment

The amendment filed on 01/07/2009 in response to the previous Non-Final Office Action (10/07/2008) is acknowledged and has been entered. Claims 1,4-8,11-15 are currently pending. Claims 2-3,9-10 are cancelled.

Response to Arguments

Applicant's arguments with respect to claims 1,4-8,11-15 have been considered but are moot in view of new grounds of rejection.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1,4-8,12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Arai et al. (US Patent 5,457,473, hereinafter Arai) in view of Nakano et al. (JP 2000-250526A, hereinafter Nakano).

Re claim 8, Arai discloses in figures 1-5, a display apparatus comprising: a display configured to display an image (reference character 22, col 5 lines 13-15); driving means for driving the display (reference character 20); and extracting means for extracting control data for controlling the display (reference character 18, col 4 lines 65-67), the control data being superposed on a vertical blanking data segment of an input image signal (col 4 lines 57-65); wherein the driving means drives the display based on

the parameters included in the control data extracted by the extracting means so that an image corresponding to the image signal is displayed (cols 4 and 5, Abstract). Arai fails to explicitly disclose the control data being composed of a plurality of data elements, each data element being composed of a data byte that is repeated multiple times with each clock signal of an image processing apparatus that generated the image signal, to generate a repetitive data element series for each data element.

Nakano discloses a display control image device which displays an image by outputting an image signal from a control part to a display part 200 transmits command data to the display part 200 successively several times, compares successively received command data with one another when receiving the command data by the display part 200, stores coincident command data in a control data storage part 904, and requests the control part to resend discrepant command data (Abstract). Nakano further discloses that the command data is prepared as 24 numbers of bits and the commands are continuously sent twice. The device sends a plurality of control signals to determine whether a transmission error occurred (pars [0017]-[0022]).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate a display apparatus, as claimed, include control parameters in a vertical blanking period to drive the display based on said parameters; meanwhile sending a repeating set of control parameters to generate a repetitive data element series for each data element. Since Arai discloses a device for including display control parameters in a vertical blanking period to control a display device; sending the control parameters as repetitive data with each clock signal, from Nakano,

would create a device in which transmission errors are detected and further corrected by retransmitting the control data.

Claim 12 is rejected as applied to claim 8 above. The method steps as claimed would have been anticipated by the system of Arai.

Claim 1 recites essentially the same scope as claim 8 except an outputting means for outputting the image signal with the control data superposed thereon to the driving means (Arai figs. 1-5, reference character R,G,B'); wherein the control data is provided for parameters of the display apparatus that is to be controlled by the driving means (Arai Abstract, col 4 lines 17-67).

Claims 4-6 are rejected as applied to claim 1. The control signal corresponds to the user input control instructions and dictates the behavior of the display. Although, the combination of Arai and Nakano does not explicitly disclose specific parameters, such as: image reversal, white balance, back light information, etc., in the control signal; Official Notice is taken to note that including specific parameters to be controlled within the control signal is notoriously well known and used in the related art.

It would have been obvious to incorporate image processing apparatus of Arai and Nakano for performing including control parameters in the vertical blanking period; meanwhile including common image processing parameters to allow a user to alter specific characteristics of the displayed image.

Claim 7 is rejected as applied to claim 1. The method steps as claimed would have been implied and expected by the modified system of Arai in view of Nakano.

Claim 13 recites essentially the same scope as claims 8 and 1 and is rejected for the same reasons.

Allowable Subject Matter

Claims 11, 14-15 are objected to as being dependent upon a rejection base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: The prior art of record fail to anticipate or render obvious the following limitations as claimed:

In view of claim 8 in its entirety, the further limitations of "...wherein the extracting means integrates the control data for each parameter, and uses data according to a result of the integration as the control data" as recited in claim 11 are neither anticipated nor rendered obvious by the prior.

In view of claim 8 in its entirety, the further limitations of "...wherein the extracting of the control data is performed by using a latch pulse at a specific timing that is generated in sync with a vertical synchronization signal of the input image signal, and by extracting one of the data bytes that is repeated multiple times from the repetitive data element series" as recited in claim 14 are neither anticipated nor rendered obvious by the prior.

In view of claim 12 in its entirety, the further limitations of "...wherein the extracting of the control data is performed by using a latch pulse at a specific timing that

is generated in sync with a vertical synchronization signal of the input image signal, and by extracting one of the data bytes that is repeated multiple times from the repetitive data element series” as recited in claim 15 are neither anticipated nor rendered obvious by the prior.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **JOEL FOSSELMAN** whose telephone number is

(571)270-3728. The examiner can normally be reached on 9:00 AM - 6:00 PM M-F, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh Tran can be reached on (571) 272-7564. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tuan V Ho/
Primary Examiner, Art Unit 2622

/Joel Fosselman/
Examiner, Art Unit 2622